

SUMMER 2021
SUMMARY OF UPDATES



NMS

●●● Canadian National Master Construction Specification



National Research
Council Canada

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Canada 

Summary of updates

The **2021-07 NMS publication** includes:

- **New Sections** that specify requirements for the commissioning of fire suppression, plumbing, HVAC and electrical systems:
 - **Section 21 08 00 - Commissioning of Fire Suppression**
 - **Section 22 08 00 - Commissioning of Plumbing**
 - **Section 23 08 00 - Commissioning of HVAC**
 - **Section 26 08 00 - Commissioning of Electrical**
- **Updates to Division 06 – Wood, Plastics and Composites**, including a new **Section 06 17 00 - Shop-Fabricated Structural Wood** that specifies technical requirements for shop-fabricated structural wood components.
- **New Reference Guides:**
 - **Mass Timber and Shop-Fabricated Structural Wood**, which introduces Encapsulated Mass Timber Construction (EMTC) systems.
 - **Wood Treatment**, which describes different pressure treatment methods that are applicable to provide protection against the effects of moisture, biological degradation and fire as they are applied to wood and mass timber products.
- **Quality Assurance and Quality Control:**
 - New **Section 01 43 00 – Quality Assurance**: Specifies administrative and procedural requirements to ensure building code compliance and conformance to Contract Documents before and during execution of Work.
 - Revision to **Section 01 45 00 – Quality Control**: To highlight the administrative and procedural requirements to ensure Contract Documents conformance during Work execution.
 - Revisions to a large number of Sections to integrate the changes related to the Section on Quality Control and Quality Assurance.
- Technical updates to a number of Sections in DIV02 and DIV06 to ensure the integration of Canadian Heritage conservation work practices.
- Revisions to **Section 01 73 00 - Execution**; to include common application/erection/installation and bracing/anchoring requirements to execute the Work.

SECTION	TITLE	STATUS
01 33 00	SUBMITTAL PROCEDURES	Editorial Edits
01 35 21	LEED REQUIREMENTS	Editorial Edits
01 35 43.10	ENVIRONMENTAL PROCEDURES - BRIDGES	Editorial Edits
01 41 00	REGULATORY REQUIREMENTS	Editorial Edits
01 43 00	QUALITY ASSURANCE	New
01 45 00	QUALITY CONTROL	Updated
01 73 00	EXECUTION	Updated
01 74 19	WASTE MANAGEMENT AND DISPOSAL	Editorial Edits
01 78 00	CLOSEOUT SUBMITTALS	Editorial Edits
01 79 00	DEMONSTRATION AND TRAINING	Editorial Edits
02 03 43	PERIOD STRUCTURE RELOCATING	Updated

02 03 44	SHORING AND SUPPORT OF PERIOD STRUCTURES	Updated
02 50 00	SITE REMEDIATION	Editorial Edits
02 83 10	LEAD-BASE PAINT ABATEMENT - MINIMUM PRECAUTIONS	Editorial Edits
02 83 11	LEAD-BASE PAINT ABATEMENT - INTERMEDIATE PRECAUTIONS	Editorial Edits
02 83 12	LEAD-BASE PAINT ABATEMENT - MAXIMUM PRECAUTIONS	Editorial Edits
02 84 00	POLYCHLORINATE BIPHENYL REMEDIATION	Editorial Edits
03 01 36	EPOXY INJECTION/CHEMICAL GROUT	Editorial Edits
03 01 37	CONCRETE RESTORATION	Editorial Edits
03 01 41	PRECAST CONCRETE CLEANING: WATER PRESSURE METHOD	Editorial Edits
03 10 00	CONCRETE FORMING AND ACCESSORIES	Editorial Edits
03 11 19	INSULATING CONCRETE FORMS	Editorial Edits
03 20 00	CONCRETE REINFORCING	Editorial Edits
03 30 00	CAST-IN-PLACE CONCRETE	Editorial Edits
03 30 00.09	CAST-IN-PLACE CONCRETE - SHORT FORM	Editorial Edits
03 31 23.13	HIGH-PERFORMANCE STRUCTURAL CONCRETE FOR BRIDGE DECKS	Editorial Edits
03 35 00	CONCRETE FINISHING	Editorial Edits
03 35 46	CONCRETE FLOOR HARDENING	Editorial Edits
03 37 13	SHOTCRETE	Editorial Edits
03 41 00	PRECAST STRUCTURAL CONCRETE	Editorial Edits
03 41 36	PRECAST STRUCTURAL POST-TENSIONED CONCRETE	Editorial Edits
03 45 00	PRECAST ARCHITECTURAL CONCRETE	Editorial Edits
03 60 10	PRESSURE GROUTING ROCK	Editorial Edits
04 03 05.13	PERIOD MASONRY MORTARING	Editorial Edits
04 03 21.19	CLAY BRICK CONSERVATION TREATMENT	Editorial Edits
04 03 21.26	PERIOD GLAZED STRUCTURAL CLAY FACING TILE REPAIR	Editorial Edits
04 03 43.13	PERIOD STONE REPAIRING	Editorial Edits
04 03 43.16	PERIOD STONE REPLACING	Editorial Edits
04 03 43.19	PERIOD STONE DISMANTLING	Editorial Edits
04 05 00	COMMON WORK RESULTS FOR MASONRY	Editorial Edits
04 20 00.08	MASONRY FOR MINOR WORKS	Editorial Edits
04 43 13	MARBLE VENEER CLADDING	Editorial Edits
04 43 16	GRANITE VENEER CLADDING	Editorial Edits
04 43 19	COLLECTED STONE VENEER CLADDING	Editorial Edits
04 43 23	QUARRIED STONE VENEER CLADDING	Editorial Edits
04 43 26	DIMENSION STONE VENEER CLADDING	Editorial Edits
04 71 13.13	PREFACED CALCIUM SILICATE MANUFACTURED BRICK MASONRY	Editorial Edits
05 12 23	STRUCTURAL STEEL FOR BUILDINGS	Editorial Edits
05 12 33	STRUCTURAL STEEL FOR BRIDGES	Editorial Edits
05 14 00	STRUCTURAL ALUMINUM FOR BUILDINGS	Editorial Edits
05 21 00	STEEL JOIST FRAMING	Editorial Edits
05 31 00	STEEL DECKING	Editorial Edits
05 41 00	STRUCTURAL METAL STUD FRAMING	Editorial Edits
06 00 00.RG.01	DIVISION 06 REFERENCE GUIDE WOOD TREATMENT	New
06 00 00.RG.02	DIVISION 06 REFERENCE GUIDE MASS TIMBER AND SHOP-FABRICATED STRUCTURAL WOOD	New
06 03 05.73	LONG-TERM PERIOD WOOD TREATMENT	Updated
06 03 13	CONSERVATION TREATMENT OF PERIOD LOG CONSTRUCTION	Updated
06 03 13.23	CONSERVATION TREATMENT OF PERIOD HEAVY TIMBER	Updated

06 03 50.13	CARVEL PLANKING	Editorial Edits
06 03 50.16	STEAM BENDING AND REPLACEMENT OF CURVED WOOD MEMBERS	Editorial Edits
06 05 73	WOOD TREATMENT	Updated
06 08 99	ROUGH CARPENTRY FOR MINOR WORKS	Updated
06 15 00	WOOD DECKING	Updated
06 17 00	SHOP-FABRICATED STRUCTURAL WOOD	New
06 17 53	SHOP-FABRICATED WOOD TRUSSES	Updated
06 18 00	GLUED-LAMINATED CONSTRUCTION	Updated
06 20 00	FINISH CARPENTRY	Editorial Edits
06 40 00	ARCHITECTURAL WOODWORK	Editorial Edits
06 40 23.13	PLASTIC LAMINATE FINISHING FOR INTERIOR ARCHITECTURAL WOODWORK	Editorial Edits
07 03 30.13	CONSERVATION TREATMENT FOR PERIOD CANVAS ROOFING	Editorial Edits
07 03 30.16	CONSERVATION TREATMENT FOR PERIOD BOARD ROOFING	Editorial Edits
07 03 31.26	CONSERVATION TREATMENT FOR PERIOD SLATE SHINGLES	Editorial Edits
07 03 31.29	CONSERVATION TREATMENT FOR PERIOD WOOD SHINGLES AND SHAKES	Editorial Edits
07 03 32.16	CONSERVATION TREATMENT FOR PERIOD CONCRETE ROOF TILES	Editorial Edits
07 03 33.13	CONSERVATION TREATMENT FOR PERIOD SOD ROOFING	Editorial Edits
07 03 41.13	CONSERVATION TREATMENT FOR PERIOD METAL ROOF PANELS	Editorial Edits
07 03 61.21	PERIOD COPPER SHEET ROOF REPAIR	Editorial Edits
07 08 13	BUILDING ENCLOSURE PERFORMANCE TESTING	Editorial Edits
07 12 13	BUILT-UP ASPHALT WATERPROOFING	Editorial Edits
07 13 52	MODIFIED BITUMINOUS SHEET WATERPROOFING	Editorial Edits
07 13 53	ELASTOMERIC SHEET WATERPROOFING	Editorial Edits
07 14 13	HOT FLUID-APPLIED RUBBERIZED ASPHALT WATERPROOFING	Editorial Edits
07 16 19	METAL OXIDE WATERPROOFING	Editorial Edits
07 17 13	BENTONITE PANEL WATERPROOFING	Editorial Edits
07 18 00	TRAFFIC COATINGS	Editorial Edits
07 19 00	WATER REPELLENTS	Editorial Edits
07 21 13	BOARD INSULATION	Editorial Edits
07 21 16	BLANKET INSULATION	Editorial Edits
07 21 23	LOOSE - FILL INSULATION	Editorial Edits
07 21 29.13	BLOWN INSULATION - CELLULOSE	Editorial Edits
07 21 26.16	BLOWN INSULATION - MINERAL FIBRE	Editorial Edits
07 21 29	SPRAYED INSULATION - POLYURETHANE FOAM	Editorial Edits
07 24 00	EXTERIOR INSULATION AND FINISH SYSTEMS	Editorial Edits
07 24 10.01	EXTERIOR INSULATION AND FINISH SYSTEMS - PANELIZED	Editorial Edits
07 24 10.03	EXTERIOR FINISH - DIRECT APPLIED	Editorial Edits
07 26 00	VAPOUR RETARDERS	Editorial Edits
07 27 00.01	AIR BARRIERS - DESCRIPTIVE OR PROPRIETARY	Editorial Edits
07 27 00.02	AIR BARRIERS - PERFORMANCE	Editorial Edits
07 31 13	ASPHALT SHINGLES	Editorial Edits
07 31 29	WOOD SHINGLES AND SHAKES	Editorial Edits
07 42 13.23	METAL COMPOSITE MATERIAL WALL PANELS	Editorial Edits
07 42 43	COMPOSITE WALL PANELS	Editorial Edits
07 42 46	FIBRE REINFORCED CEMENTITIOUS WALL PANELS	Editorial Edits
07 46 16	ALUMINUM SIDING	Editorial Edits
07 46 19	STEEL SIDING	Editorial Edits

07 46 23	WOOD SIDING	Editorial Edits
07 46 33	PLASTIC SIDING	Editorial Edits
07 51 00	BUILT-UP BITUMINOUS ROOFING	Editorial Edits
07 53 23	ETHYLENE PROPYLENE DIENE MONOMER ROOFING	Editorial Edits
07 54 19	POLYVINYL CHLORIDE ROOFING	Editorial Edits
07 55 63	VEGETATED PROTECTED MEMBRANE ROOFING	Editorial Edits
07 56 13	HOT FLUID APPLIED RUBBERIZED ASPHALT ROOFING	Editorial Edits
07 61 00	SHEET METAL ROOFING	Editorial Edits
07 62 00	SHEET METAL FLASHING AND TRIM	Editorial Edits
07 72 33	ROOF HATCHES	Editorial Edits
07 81 00	APPLIED FIREPROOFING	Editorial Edits
07 84 00	FIRE STOPPING	Editorial Edits
07 95 13	EXPANSION JOINT COVER ASSEMBLIES	Editorial Edits
08 03 11	HISTORIC - PERIOD WOOD DOORS	Editorial Edits
08 03 14.33	CONSERVATION TREATMENT FOR PERIOD STILE AND RAIL WOOD DOORS	Editorial Edits
08 03 51.23	CONSERVATION TREATMENT FOR PERIOD STEEL WINDOWS	Editorial Edits
08 03 52	CONSERVATION TREATMENT FOR PERIOD WOOD WINDOWS	Editorial Edits
08 11 16	ALUMINUM DOORS AND FRAMES	Editorial Edits
08 11 19	STAINLESS-STEEL DOORS AND FRAMES	Editorial Edits
08 13 73	SLIDING METAL DOORS	Editorial Edits
08 14 16	FLUSH WOOD DOORS	Editorial Edits
08 14 73	SLIDING WOOD AND PLASTIC DOORS	Editorial Edits
08 31 00	ACCESS DOORS AND PANELS	Editorial Edits
08 33 00	OVERHEAD COILING DOORS AND GRILLES	Editorial Edits
08 33 13	COILING COUNTER DOORS	Editorial Edits
08 33 36	SIDE COILING GRILLES	Editorial Edits
08 34 59.13	VAULT DOORS AND FRAMES	Editorial Edits
08 36 19	MULTI-LEAF VERTICAL LIFT DOORS	Editorial Edits
08 42 26.33	SWINGING ALL GLASS ENTRANCES	Editorial Edits
08 42 29	AUTOMATIC ENTRANCES	Editorial Edits
08 44 13	GLAZED ALUMINUM CURTAIN WALLS	Editorial Edits
08 44 23	STRUCTURAL SEALANT GLAZED CURTAIN WALLS	Editorial Edits
08 50 00	WINDOWS	Editorial Edits
08 62 00	UNIT SKYLIGHTS	Editorial Edits
08 71 00	DOOR HARDWARE	Editorial Edits
08 80 00	GLAZING	Editorial Edits
08 90 00	LOUVRES AND VENTS	Editorial Edits
09 01 90.62	EXTERIOR REPAINTING	Editorial Edits
09 01 90.63	INTERIOR REPAINTING	Editorial Edits
09 03 25	CONSERVATION TREATMENT FOR PERIOD PLASTERING	Editorial Edits
09 03 91.13	CONSERVATION TREATMENT FOR PERIOD EXTERIOR PAINTING	Editorial Edits
09 03 91.23	CONSERVATION TREATMENT FOR PERIOD INTERIOR PAINTING	Editorial Edits
09 21 16.08	GYPSUM BOARD ASSEMBLIES FOR MINOR WORKS	Editorial Edits
09 51 13	ACOUSTICAL PANEL CEILINGS	Editorial Edits
09 54 23	LINEAR METAL CEILINGS	Editorial Edits
09 64 23	WOOD PARQUET FLOORING	Editorial Edits
09 64 29	WOOD STRIP AND PLANK FLOORING	Editorial Edits

09 64 53	RESILIENT WOOD FLOORING ASSEMBLIES	Editorial Edits
09 65 00.08	RESILIENT FLOORING FOR MINOR WORKS	Editorial Edits
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09 66 13	PORTLAND CEMENT TERRAZZO FLOORING	Editorial Edits
09 66 16	TERRAZZO FLOOR TILE	Editorial Edits
09 66 23	RESINOUS MATRIX TERRAZZO FLOORING	Editorial Edits
09 68 13	TILE CARPETING	Editorial Edits
09 72 16	VINYL-COATED FABRIC WALL COVERINGS	Editorial Edits
09 80 00	ACOUSTIC TREATMENT	Editorial Edits
09 91 13	EXTERIOR PAINTING	Editorial Edits
09 91 23	INTERIOR PAINTING	Editorial Edits
09 96 59	HIGH-BUILD GLAZED COATINGS	Editorial Edits
09 96 66	AGGREGATE WALL COATINGS	Editorial Edits
10 21 13.13	METAL TOILET COMPARTMENTS	Editorial Edits
10 22 13	WIRE MESH PARTITIONS	Editorial Edits
10 22 19.54	DEMOUNTABLE PARTITIONS - POST AND PANEL	Editorial Edits
10 22 19.55	DEMOUNTABLE PARTITIONS - STUD TYPE	Editorial Edits
10 22 39	FOLDING PANEL PARTITIONS	Editorial Edits
10 44 00	FIRE PROTECTION SPECIALTIES	Editorial Edits
11 13 19.13	LOADING DOCK LEVELERS	Editorial Edits
11 13 19.23	LOADING DOCK LIFTS	Editorial Edits
11 40 10	FOOD SERVICE STOCK EQUIPMENT	Editorial Edits
11 41 23	WALK-IN COOLERS AND FREEZERS	Editorial Edits
11 51 23.13	METAL LIBRARY SHELVING	Editorial Edits
11 53 13	LABORATORY FUME HOODS	Editorial Edits
12 21 16	VERTICAL LOUVRE BLINDS	Editorial Edits
12 35 39	COMMERCIAL KITCHEN CASEWORK	Editorial Edits
14 20 03	FREIGHT ELEVATORS	Editorial Edits
14 20 06	PASSENGER ELEVATORS	Editorial Edits
21 08 00	COMMISSIONING OF FIRE SUPPRESSION	New
21 30 00	FIRE PUMPS	Editorial Edits
22 08 00	COMMISSIONING OF PLUMBING	New
23 05 19	METERS AND GAUGES FOR HVAC PIPING	Editorial Edits
23 05 19.13	THERMOMETERS AND PRESSURE GAUGES - PIPING SYSTEMS	Editorial Edits
23 05 93.13	TESTING, ADJUSTING AND BALANCING OF FUME HOODS	Editorial Edits
23 07 13	DUCT INSULATION	Editorial Edits
23 08 00	COMMISSIONING OF HVAC	New
23 52 00	HEATING BOILERS	Editorial Edits
23 54 13	ELECTRIC-RESISTANCE FURNACES	Editorial Edits
23 54 16	FUEL-FIRED FURNACES	Editorial Edits
23 57 00	HEAT EXCHANGERS FOR HVAC	Editorial Edits
23 64 13	ABSORPTION WATER CHILLERS	Editorial Edits
23 64 16	CENTRIFUGAL WATER CHILLERS	Editorial Edits
23 64 19	RECIPROCATING WATER CHILLERS	Editorial Edits
23 64 26	ROTARY-SCREW WATER CHILLERS	Editorial Edits
23 65 16	NATURAL DRAFT COOLING TOWERS	Editorial Edits

23 72 00	AIR-TO-AIR ENERGY RECOVERY EQUIPMENT	Editorial Edits
23 73 00.13	AIR HANDLING - BUILT-UP	Editorial Edits
23 73 00.16	AIR HANDLING UNITS - PACKAGED	Editorial Edits
23 74 00	PACKAGED OUTDOOR HVAC EQUIPMENT	Editorial Edits
23 81 23	COMPUTER ROOM AIR CONDITIONING	Editorial Edits
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26 05 14	POWER CABLE AND OVERHEAD CONDUCTORS (1001 V)	Editorial Edits
26 05 27	GROUNDING - PRIMARY	Editorial Edits
26 05 33.01	SURFACE AND LIGHTING FIXTURE RACEWAYS	Editorial Edits
26 08 00	COMMISSIONING OF ELECTRICAL	New
26 09 23.03	LIGHTING CONTROL DEVICES - INCANDESCENT DIMMING	Editorial Edits
26 11 00.01	OUTDOOR SUBSTATION TO 15 KV	Editorial Edits
26 12 13	LIQUID FILLED, MEDIUM VOLTAGE TRANSFORMERS	Editorial Edits
26 12 19	PAD MOUNTED, LIQUID FILLED, MEDIUM VOLTAGE TRANSFORMERS	Editorial Edits
26 12 21	TRANSFORMER VAULT EQUIPMENT TO 15 KV	Editorial Edits
26 27 19	MULTI-OUTLET ASSEMBLIES	Editorial Edits
26 35 33	POWER FACTOR CORRECTION EQUIPMENT	Editorial Edits
26 42 00.01	TELETHERMICS - CATHODIC PROTECTION	Editorial Edits
26 50 00	LIGHTING	Editorial Edits
26 52 13.16	EXIT SIGNS	Editorial Edits
31 31 19.13	CHEMICAL VEGETATION CONTROL	Editorial Edits
31 53 13	TIMBER CRIBWORK	Editorial Edits
32 11 33	CEMENT-TREATED BASE COURSES	Editorial Edits
32 14 13	PRECAST CONCRETE UNIT PAVING	Editorial Edits
33 05 16	MAINTENANCE HOLES AND CATCH BASIN STRUCTURES	Editorial Edits
33 65 16	TELETHERMICS - DISTRIBUTION PIPING - PVC - FRP	Editorial Edits
33 65 26	TELETHERMICS - INSULATED AND PLASTIC JACKETED SYSTEMS	Editorial Edits
33 65 33	TELETHERMICS - DRYABLE DRAINABLE, TESTABLE CONDUIT SYSTEMS	Editorial Edits
33 65 43	TELETHERMICS - STEEL TUNNEL SYSTEMS	Editorial Edits
33 65 46	TELETHERMICS - SHALLOW INVERTED TRENCH (SIT) SYSTEMS	Editorial Edits
33 65 73	CONCRETE ENCASED DUCT BANKS AND MANHOLES	Editorial Edits
33 65 76	DIRECT BURIED UNDERGROUND CABLE DUCTS	Editorial Edits
33 71 16.01	ELECTRICAL POLE LINES AND HARDWARE	Editorial Edits
33 71 73.01	OVERHEAD ELECTRICAL SERVICE	Editorial Edits
33 71 73.02	UNDERGROUND ELECTRICAL SERVICE	Editorial Edits
34 43 13.16	AIRFIELD RUNWAY AND TAXIWAY INSET LIGHTING	Editorial Edits
34 72 16	RAILWAY SIDING	Editorial Edits



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